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FILE 'HOME' ENTERED AT 07:48:55 ON 17 APR 2007

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 07:49:04 ON 17 APR 2007

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STRUCTURE FILE UPDATES: 15 APR 2007 HIGHEST RN 930272-82-5

DICTIONARY FILE UPDATES: 15 APR 2007 HIGHEST RN 930272-82-5

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=> s [KNT][HPN][AV][HQ]YWT[HQ]MFY[ST]/SQSP

L1 11 [KNT][HPN][AV][HQ]YWT[HQ]MFY[ST]/SQSP

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	32.95	33.16

FILE 'CAPLUS' ENTERED AT 07:53:48 ON 17 APR 2007

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FILE COVERS 1907 - 17 Apr 2007 VOL 146 ISS 17  
FILE LAST UPDATED: 15 Apr 2007 (20070415/ED)

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<http://www.cas.org/infopolicy.html>

=> S L1

L2 2 L1

=> d l2 ibib abs hitstr tot

L2 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:462861 CAPLUS

DOCUMENT NUMBER: 141:35974

TITLE: Fluorescent dye binding peptides

INVENTOR(S): Nolan, Garry P.; Rozinov, Michael N.

PATENT ASSIGNEE(S): The Board of Trustees for the Leland Stanford Junior  
University, USA

SOURCE: U.S., 54 pp., Cont.-in-part of U.S. Provisional Ser.  
No. 104,465.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6747135	B1	20040608	US 1999-419381	19991015
US 2004176578	A1	20040909	US 2003-692151	20031014
PRIORITY APPLN. INFO.:			US 1998-104465P	P 19981016
			US 1999-419381	A1 19991015

AB The present invention is directed to novel polypeptides, termed  
fluorettes, that bind with high avidity to fluorophore dyes. The peptides  
find use in a variety of methods and approaches involving fluorophore  
dyes.

IT 265979-68-8P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(Fluorescent dye complex with; fluorescent dye binding peptides)

RN 265979-68-8 CAPLUS

CN L-Threonine, L-lysyl-L-prolyl-L-valyl-L-glutaminyl-L-tyrosyl-L-tryptophyl-  
L-threonyl-L-glutaminyl-L-methionyl-L-phenylalanyl-L-tyrosyl- (9CI) (CA  
INDEX NAME)

Absolute stereochemistry.



IT 265979-53-1 265979-69-9 265979-70-2  
265979-71-3 265979-72-4 265979-73-5  
265979-74-6 700846-46-4 700846-47-5

RL: PRP (Properties)

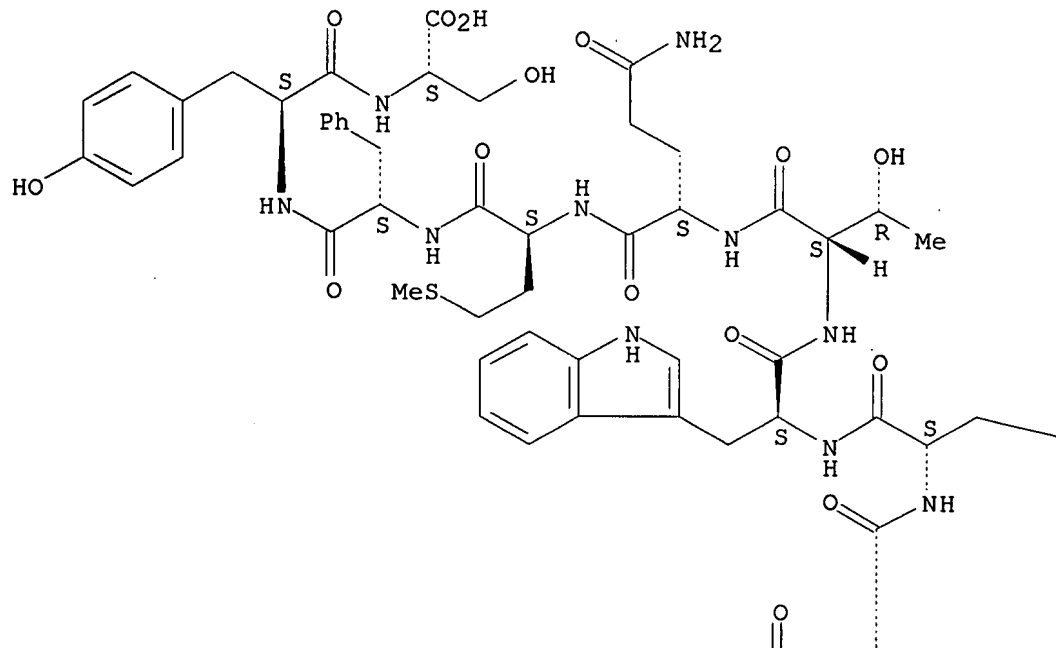
(unclaimed sequence; fluorescent dye binding peptides)

RN 265979-53-1 CAPLUS

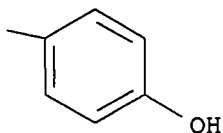
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Absolute stereochemistry.

PAGE 1-A

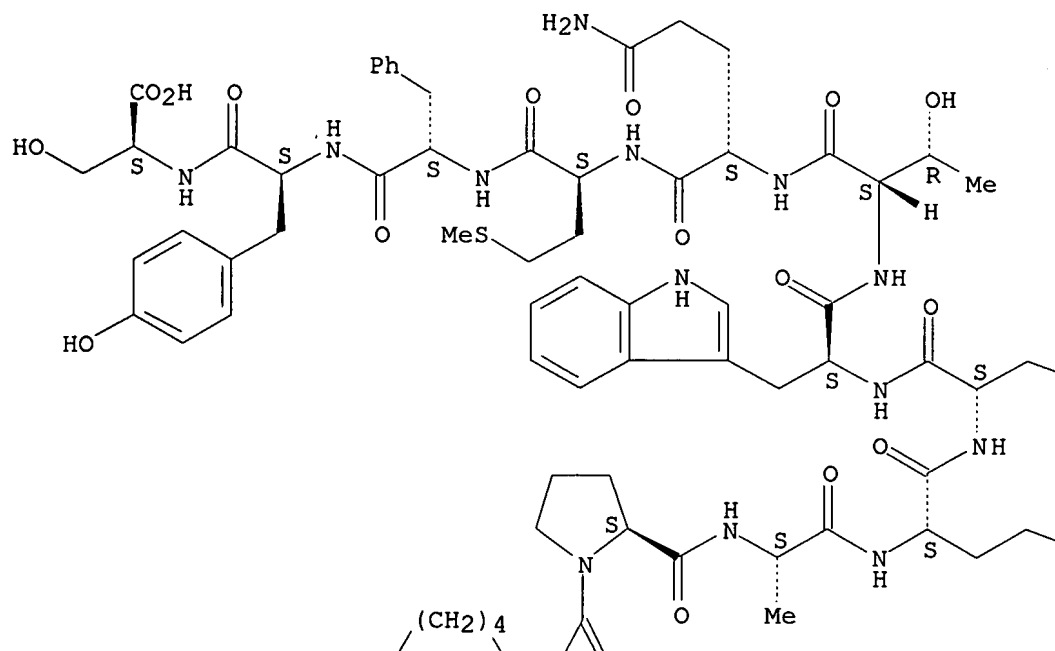


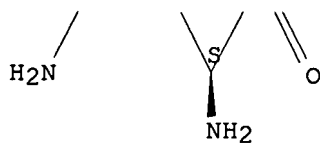
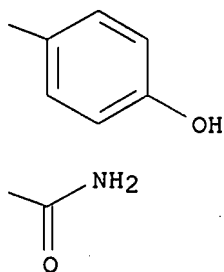
PAGE 1-B



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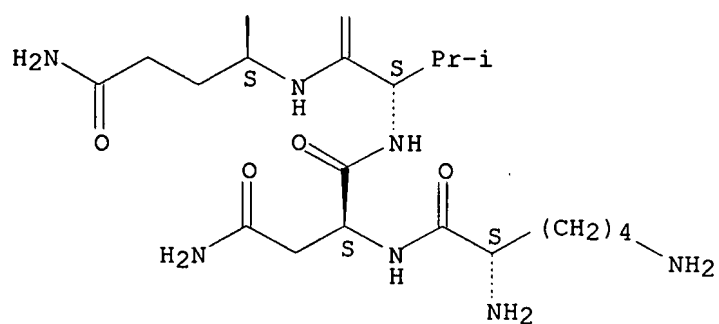
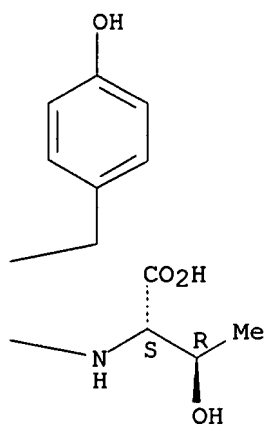
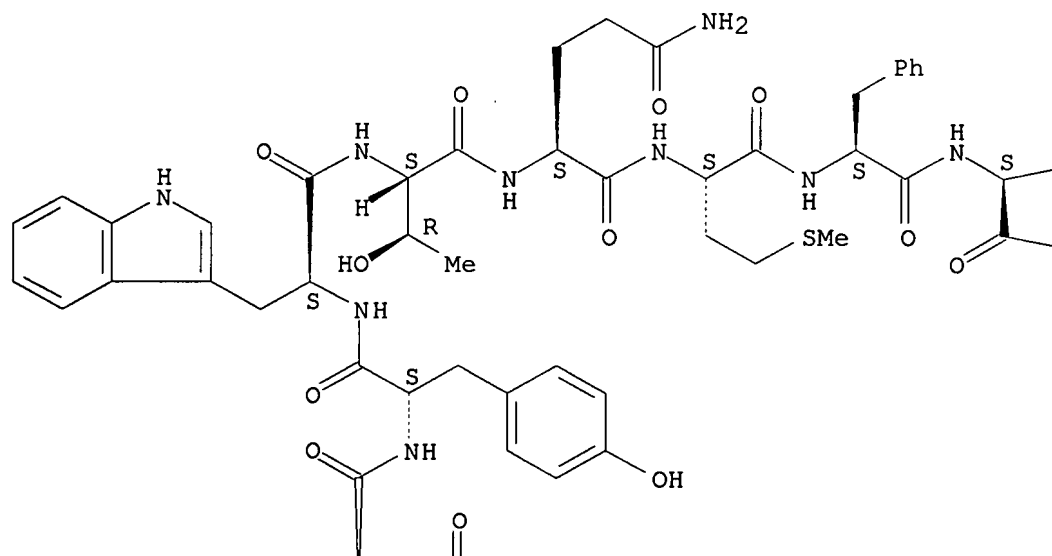
PAGE 1-A





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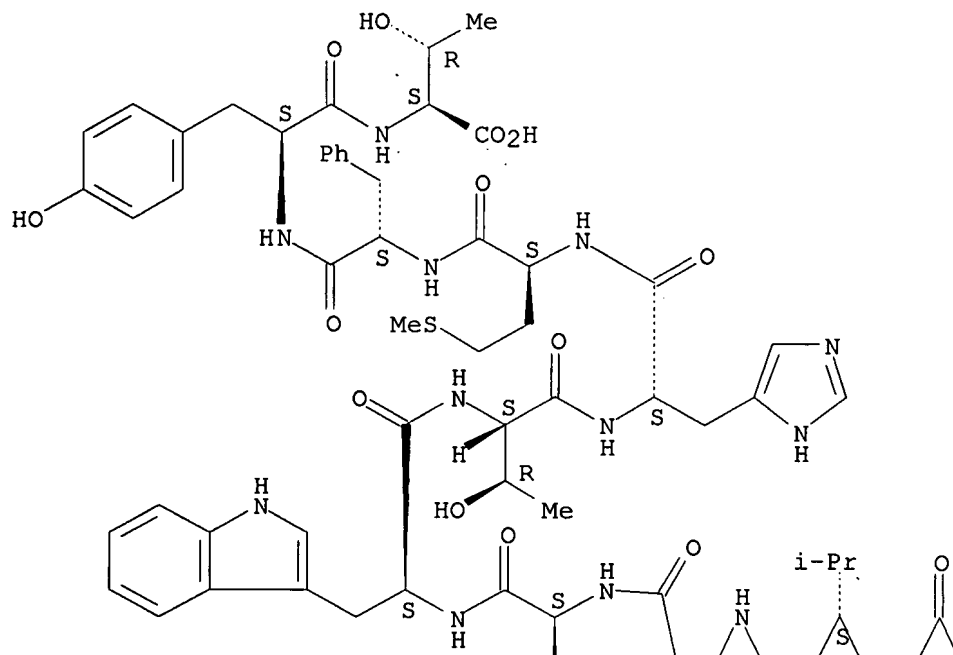
Absolute stereochemistry.



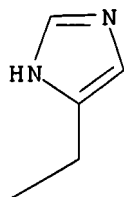
RN 265979-71-3 CAPLUS  
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Absolute stereochemistry.

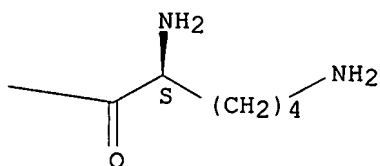
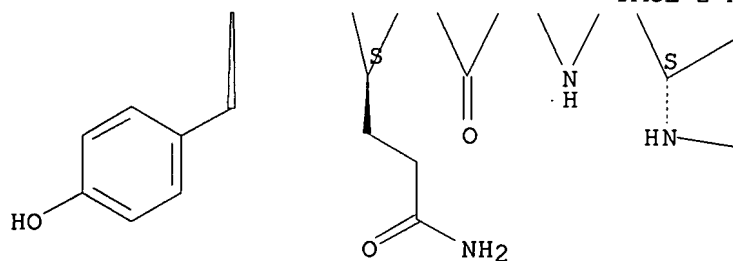
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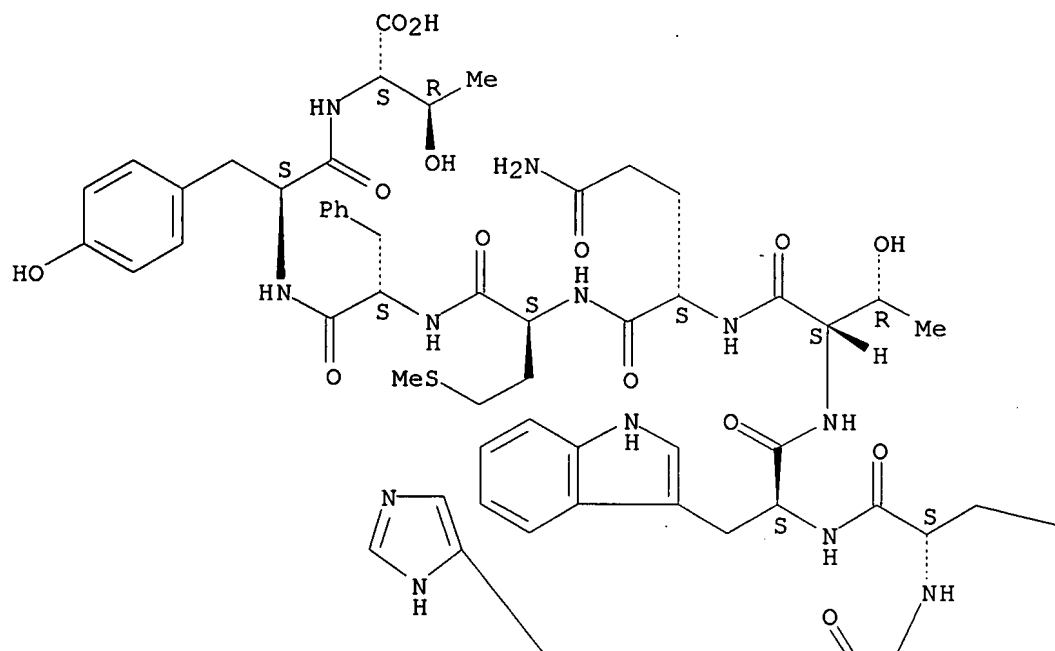


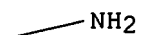
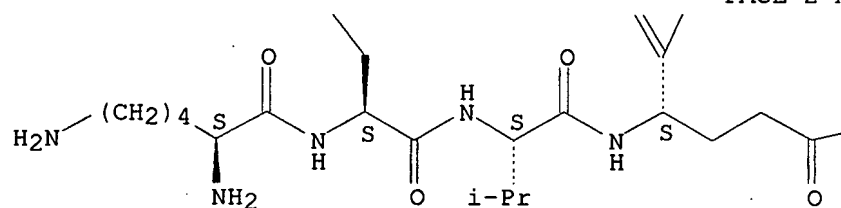
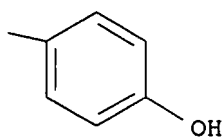


RN 265979-72-4 CAPLUS

CN L-Threonine, L-lysyl-L-histidyl-L-valyl-L-glutaminyl-L-tyrosyl-L-tryptophyl-L-threonyl-L-glutaminyl-L-methionyl-L-phenylalanyl-L-tyrosyl-(9CI) (CA INDEX NAME)

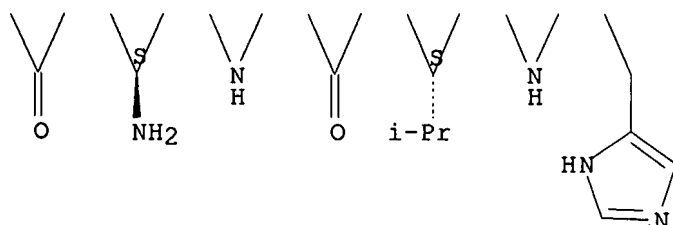
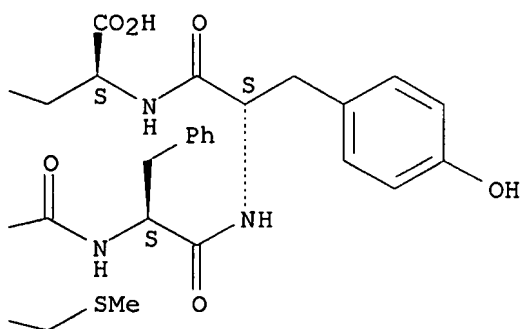
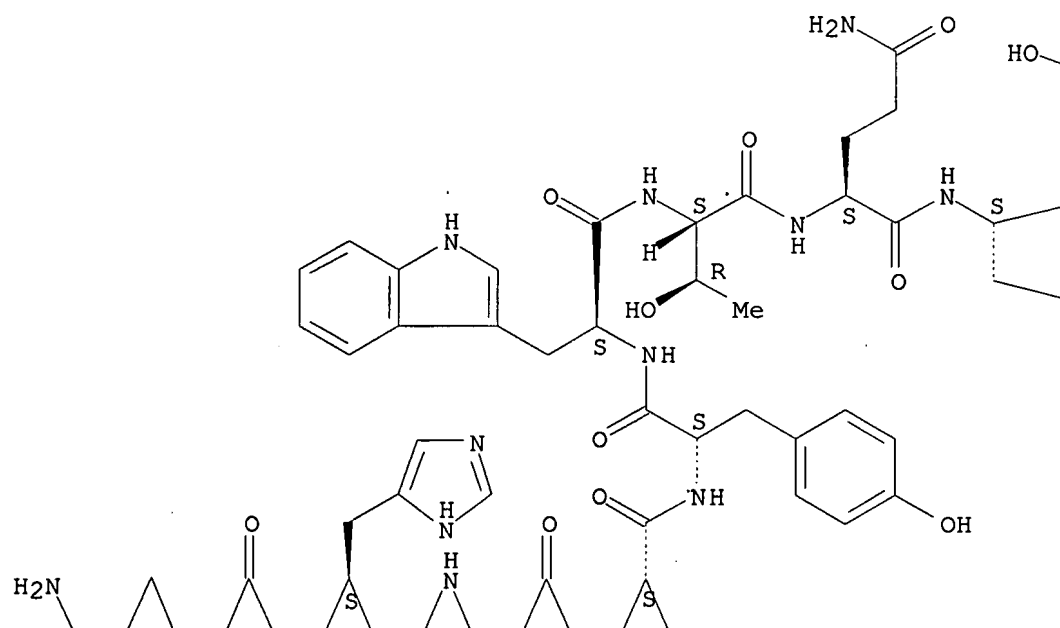
Absolute stereochemistry.





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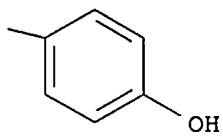
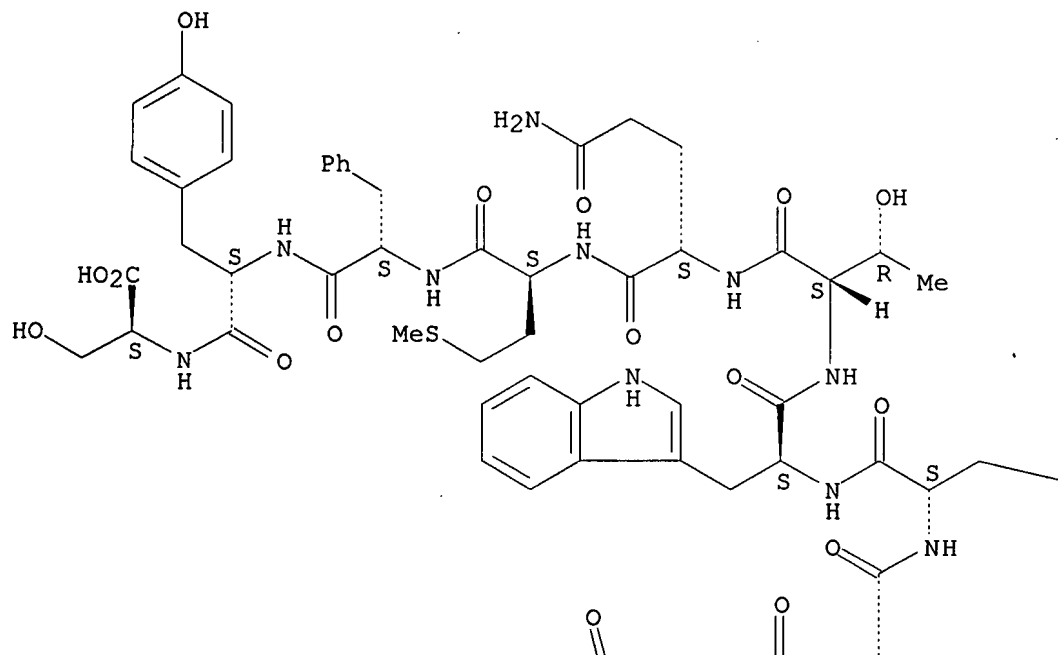
Absolute stereochemistry.

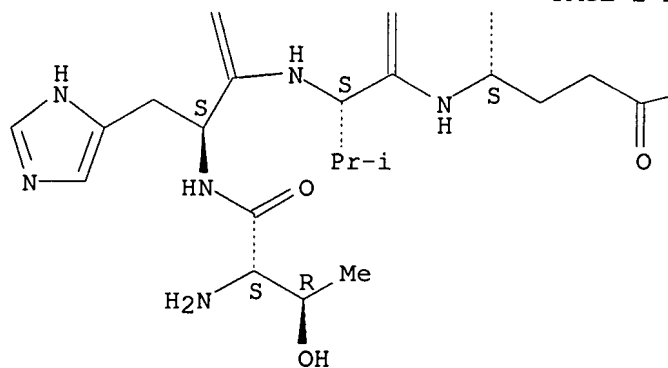


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CN L-Serine, L-threonyl-L-histidyl-L-valyl-L-glutaminyl-L-tyrosyl-L-tryptophyl-L-threonyl-L-glutaminyl-L-methionyl-L-phenylalanyl-L-tyrosyl-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



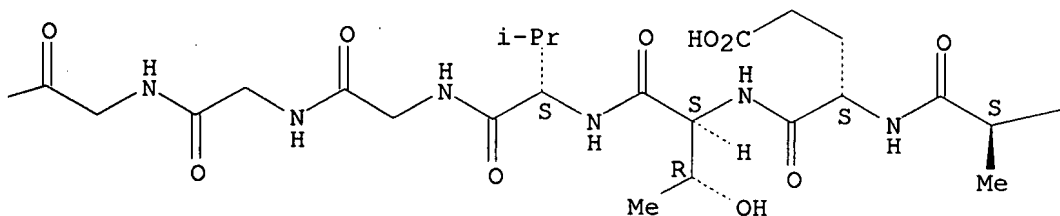
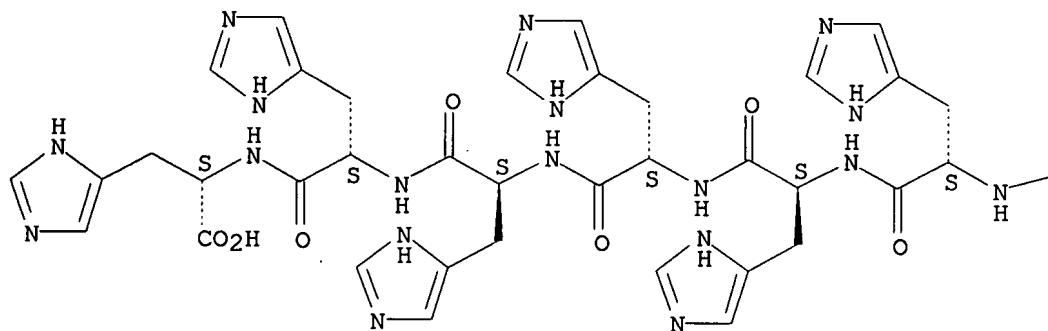


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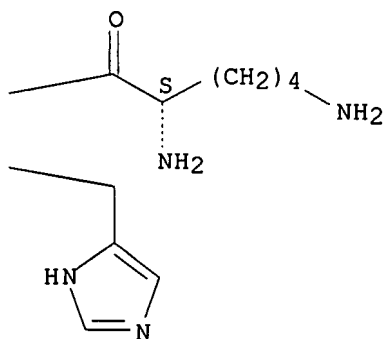
RN 700846-46-4 CAPLUS

CN L-Histidine, L-lysyl-L-histidyl-L-valyl-L-glutaminyl-L-tyrosyl-L-tryptophyl-L-threonyl-L-glutaminyl-L-methionyl-L-phenylalanyl-L-tyrosyl-L-seryl-glycylglycylglycyl-L-seryl-L-alanyl-L-α-glutamyl-L-threonyl-L-valylglycylglycylglycyl-L-histidyl-L-histidyl-L-histidyl-L-histidyl-L-histidyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.





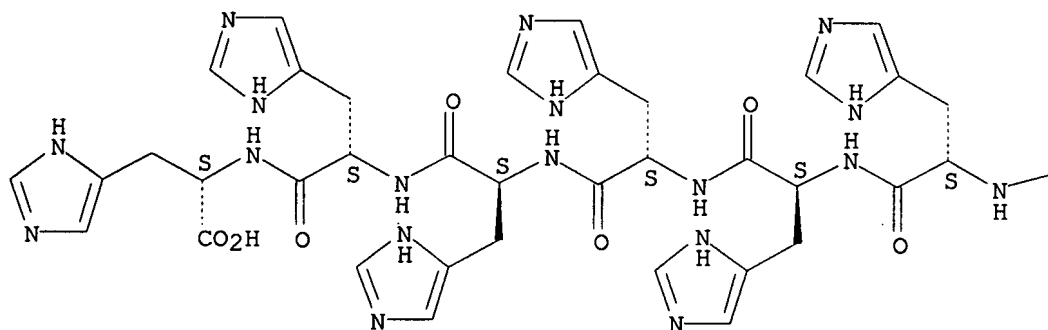


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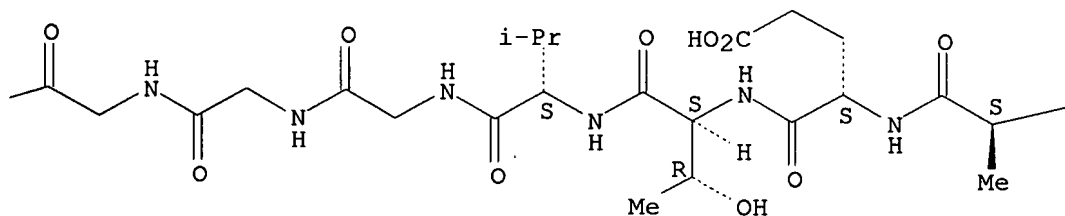
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Absolute stereochemistry.

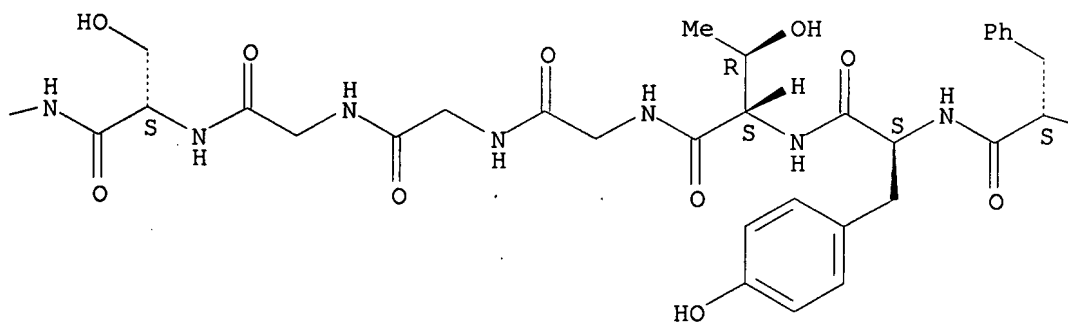
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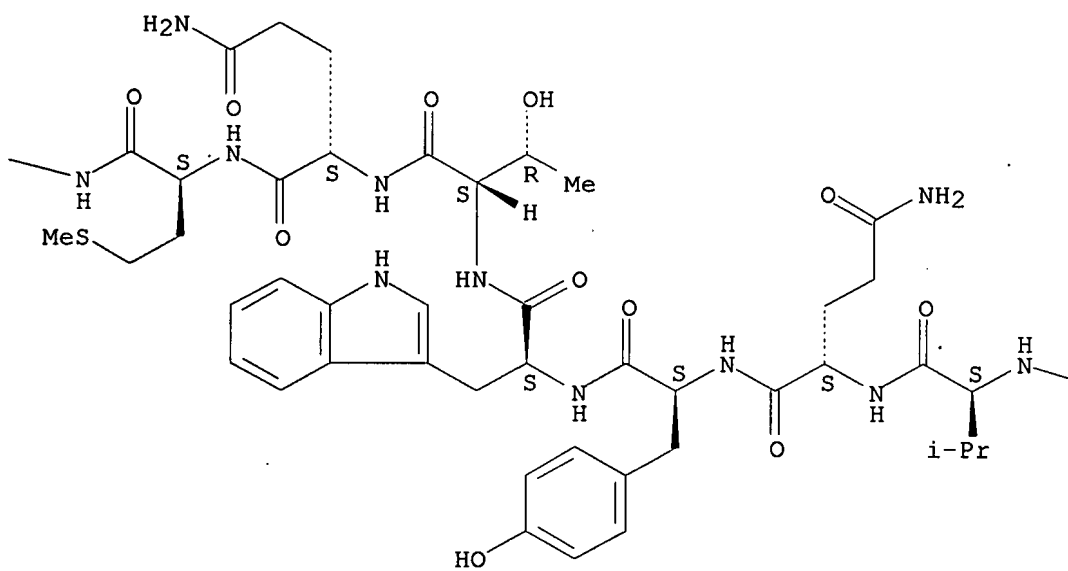
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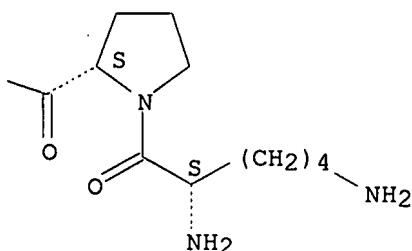
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REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:278000 CAPLUS

DOCUMENT NUMBER: 132:319524

TITLE: Fluorescent dye binding peptides for the determination of biomolecules

INVENTOR(S): Nolan, Garry P.; Rozinov, Michael N.

PATENT ASSIGNEE(S): The Board of Trustees of the Leland Stanford Junior University, USA

SOURCE: PCT Int. Appl., 64 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000023463	A2	20000427	WO 1999-US24266	19991015
WO 2000023463	A3	20000817		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: US 1998-104465P P 19981016

AB The present invention is directed to novel polypeptides, termed fluorettes, that bind with high avidity to fluorophore dyes. Peptides are selected from phage display libraries using the immobilized fluorophores. Fluorophores are selected from the group of Texas Red, Rhodamine Red, Oregon Green 514, and fluorescein. The peptides find use in a variety of methods and approaches involving fluorophore dyes.

IT 265979-53-1 265979-68-8 265979-69-9

265979-70-2 265979-71-3 265979-72-4

265979-73-5 265979-74-6

RL: ARG (Analytical reagent use); PEP (Physical, engineering or chemical process); PRP (Properties); ANST (Analytical study); PROC (Process); USES (Uses)

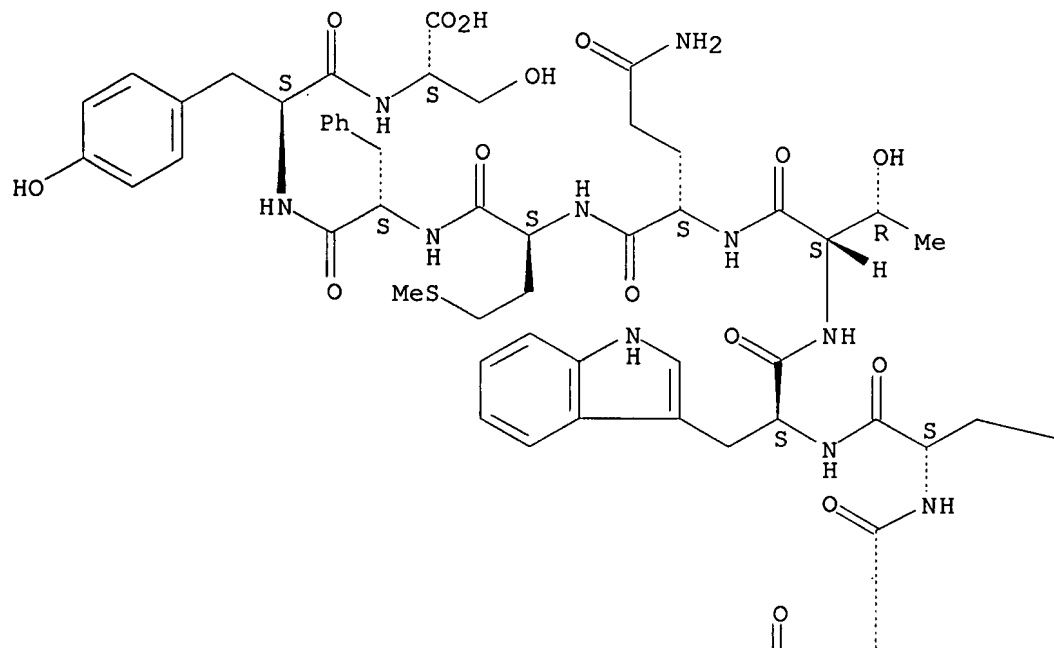
(fluorescent dye binding peptides for determination of biomols.)

RN 265979-53-1 CAPLUS

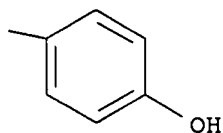
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Absolute stereochemistry.

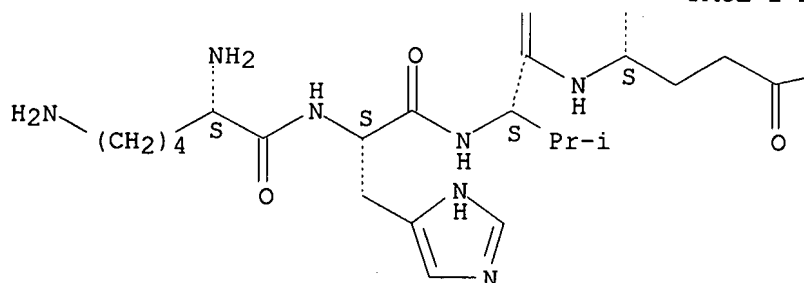
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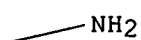
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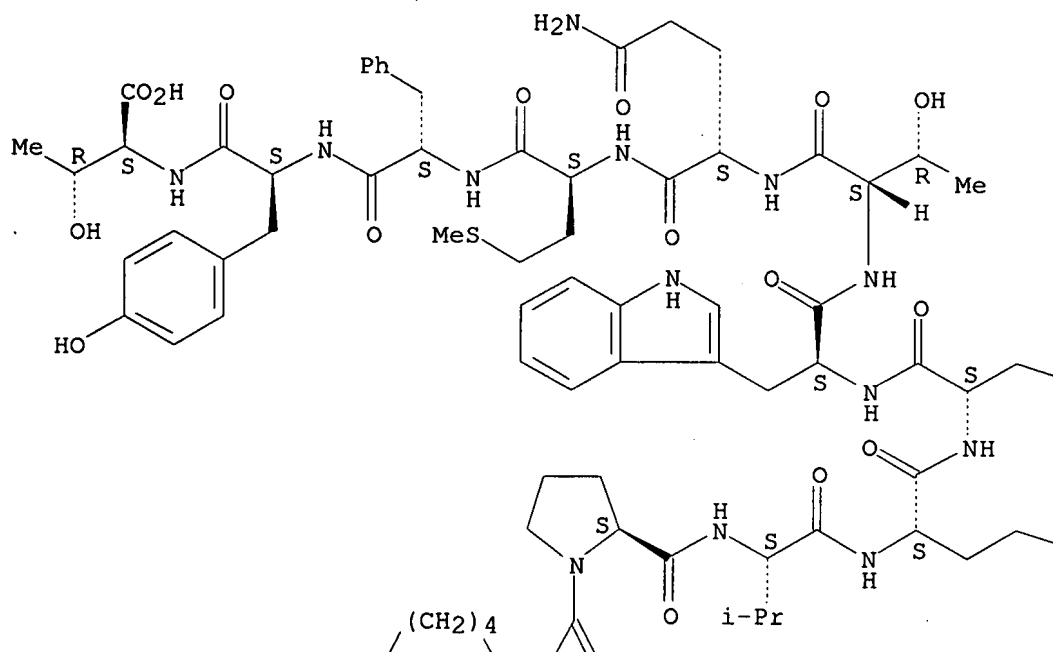


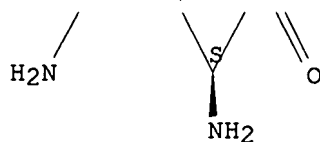
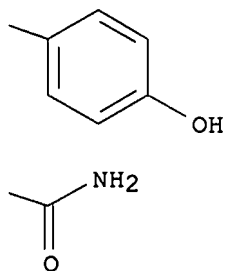
RN 265979-68-8 CAPLUS

CN L-Threonine, L-lysyl-L-prolyl-L-valyl-L-glutaminyl-L-tyrosyl-L-tryptophyl-L-threonyl-L-glutaminyl-L-methionyl-L-phenylalanyl-L-tyrosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

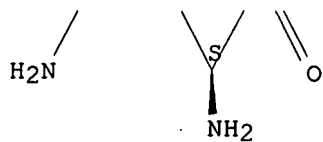
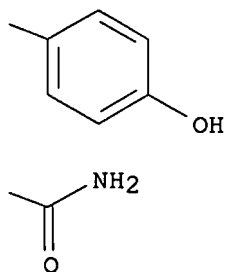
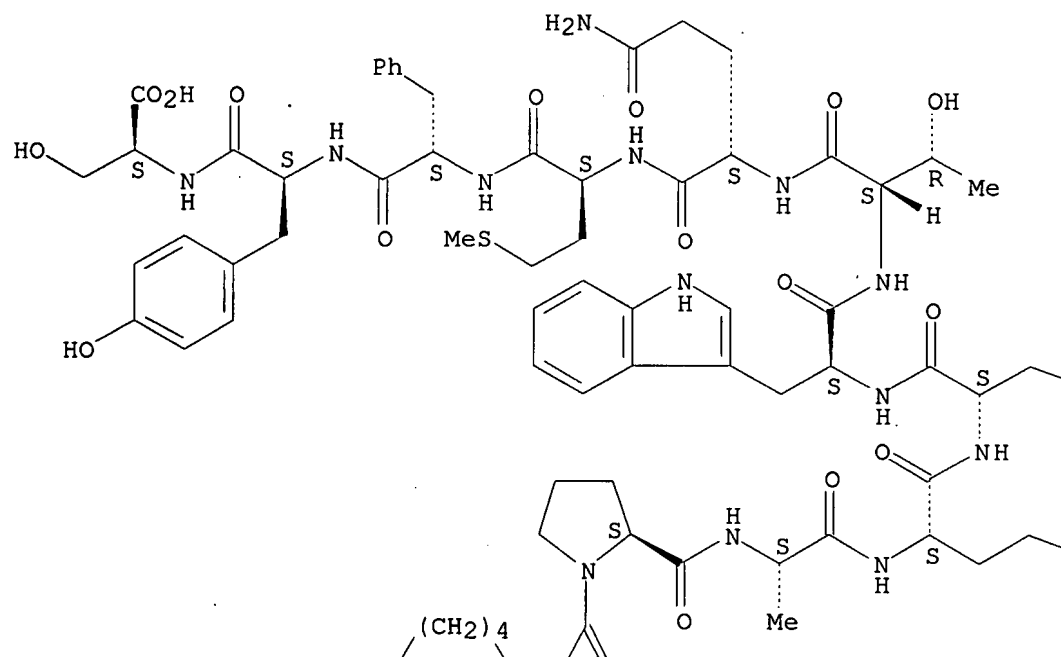




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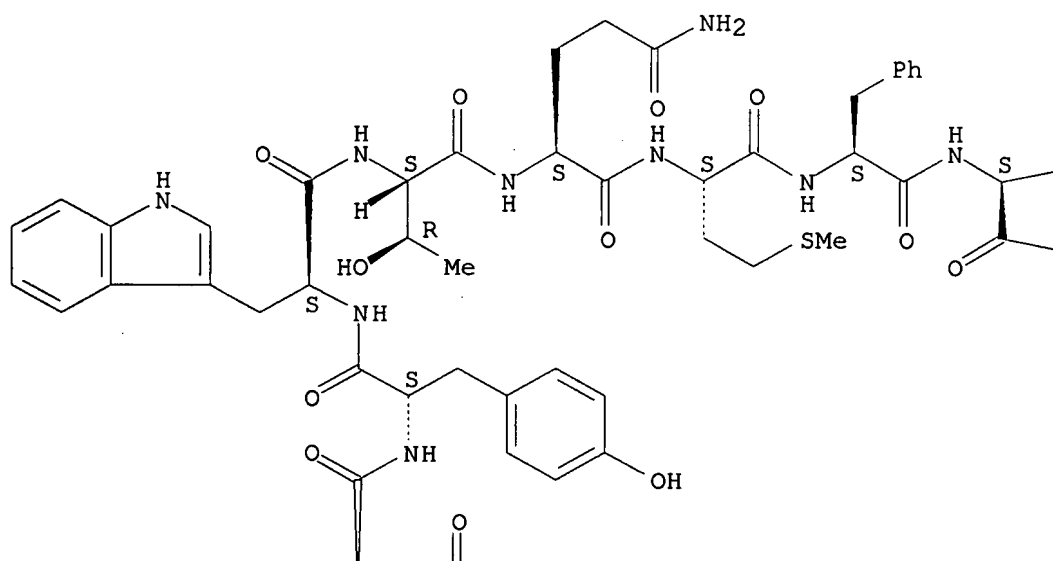
Absolute stereochemistry.



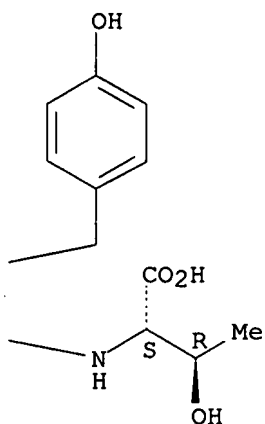
RN 265979-70-2 CAPLUS  
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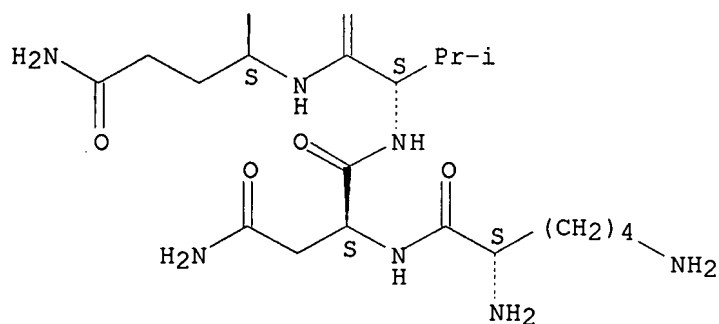
Absolute stereochemistry.

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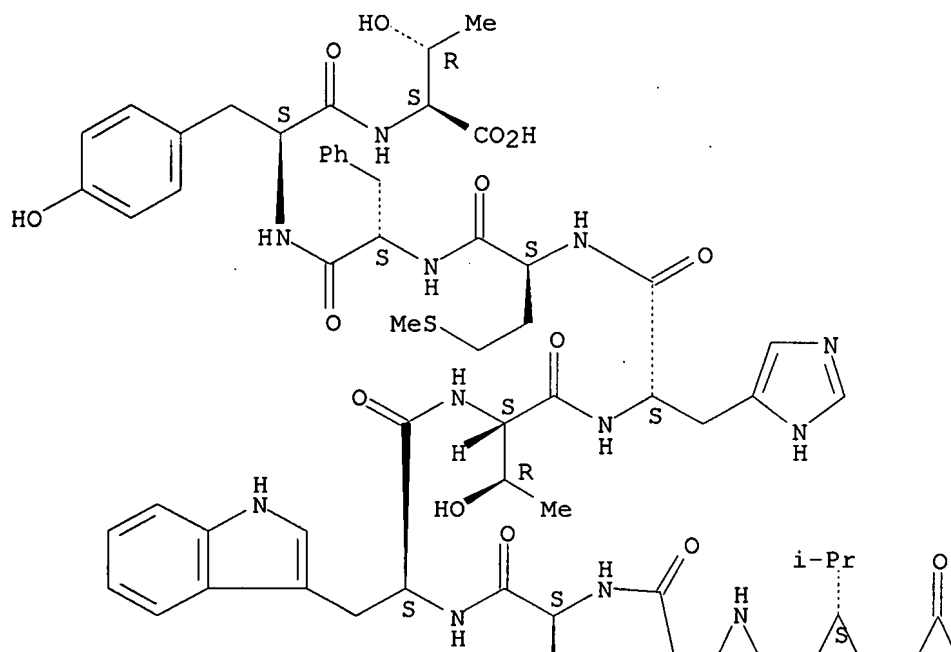


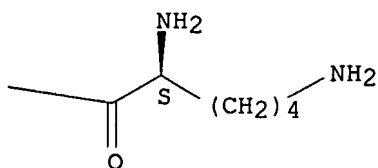
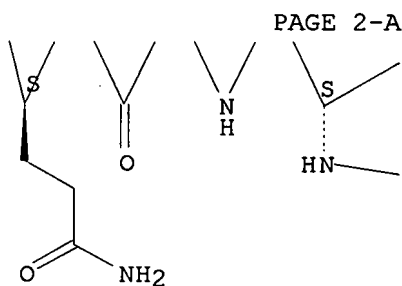
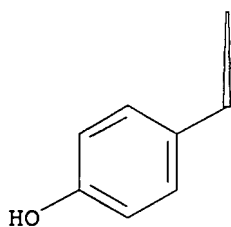
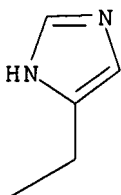


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Absolute stereochemistry.



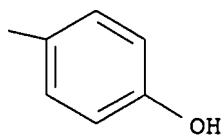
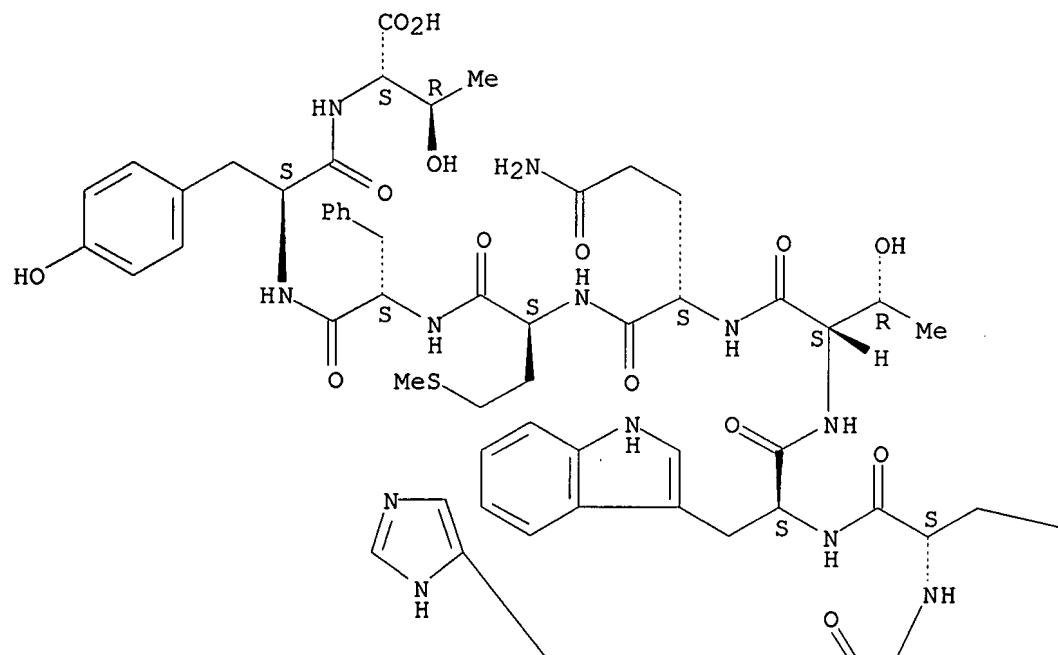


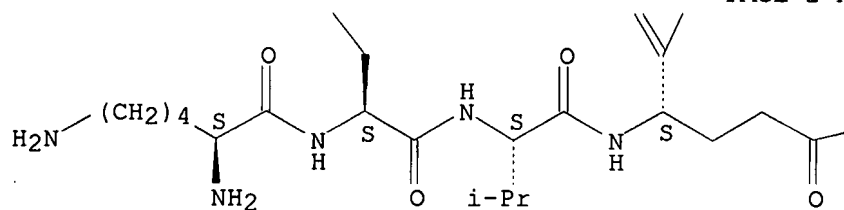
RN 265979-72-4 CAPLUS

CN L-Threonine, L-lysyl-L-histidyl-L-valyl-L-glutaminyl-L-tyrosyl-L-tryptophyl-L-threonyl-L-glutaminyl-L-methionyl-L-phenylalanyl-L-tyrosyl-(9CI) (CA INDEX NAME)

Absolute stereochemistry.





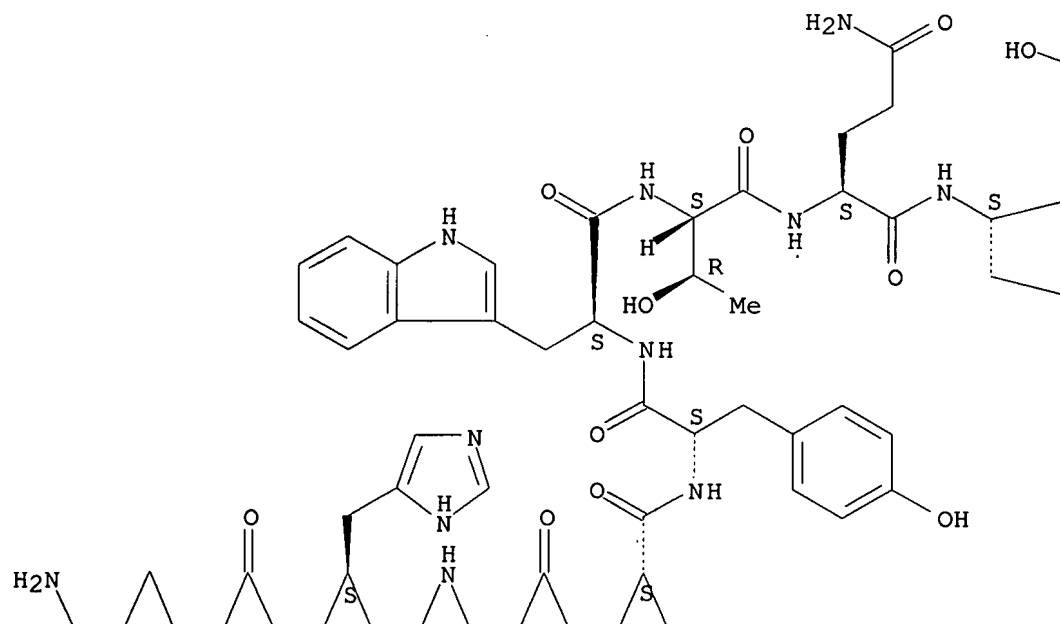


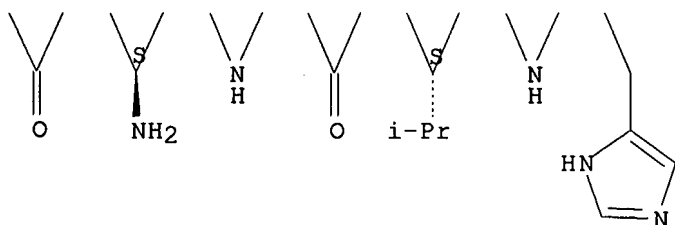
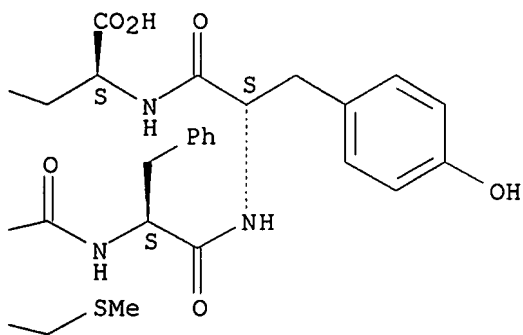
—NH<sub>2</sub>

RN 265979-73-5 CAPLUS

CN L-Serine, L-asparaginyl-L-histidyl-L-valyl-L-histidyl-L-tyrosyl-L-tryptophyl-L-threonyl-L-glutaminyl-L-methionyl-L-phenylalanyl-L-tyrosyl-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

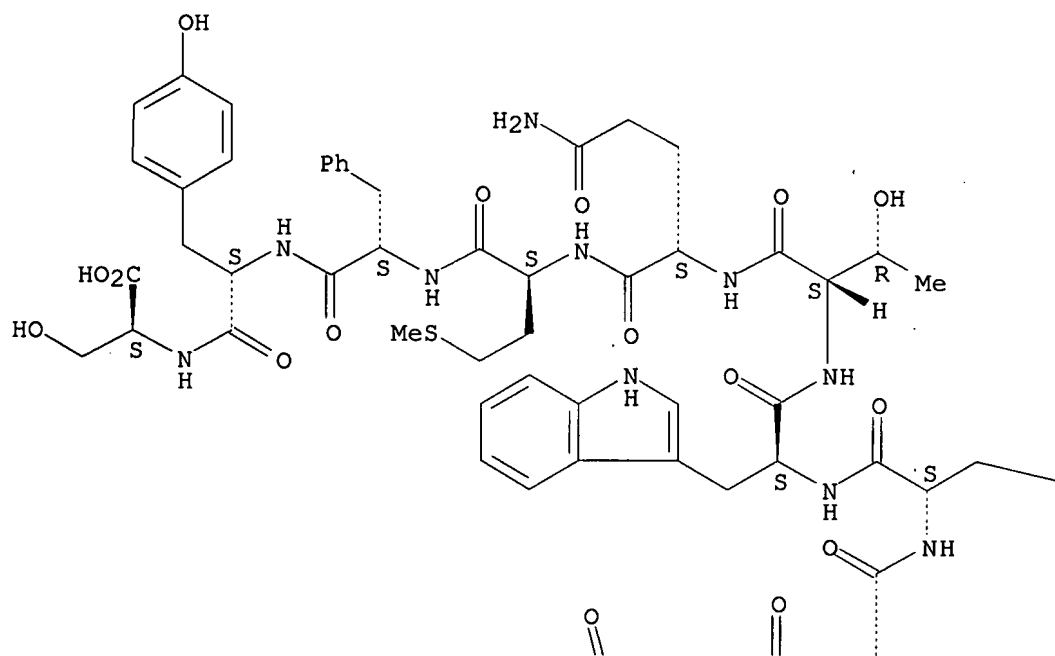


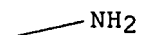
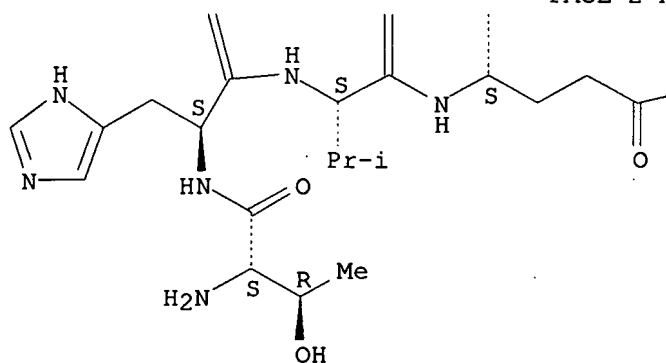
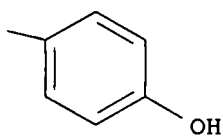


RN 265979-74-6 CAPLUS

CN L-Serine, L-threonyl-L-histidyl-L-valyl-L-glutaminyl-L-tyrosyl-L-tryptophyl-L-threonyl-L-glutaminyl-L-methionyl-L-phenylalanyl-L-tyrosyl-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

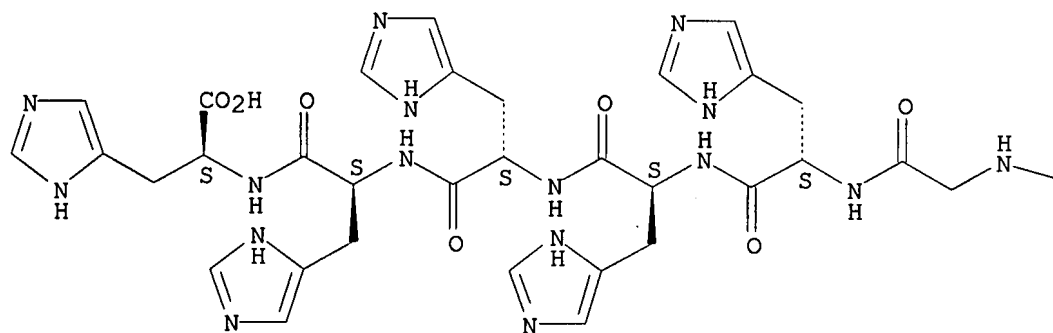




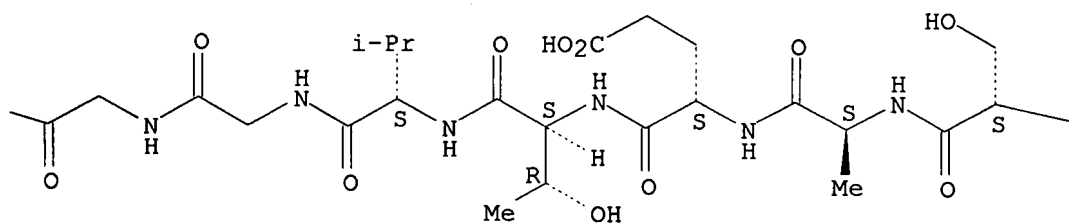
IT 265980-08-3  
 RL: PRP (Properties)  
 (unclaimed sequence; fluorescent dye binding peptides for determination of biomols.)  
 RN 265980-08-3 CAPLUS  
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 (CA INDEX NAME)

Absolute stereochemistry.

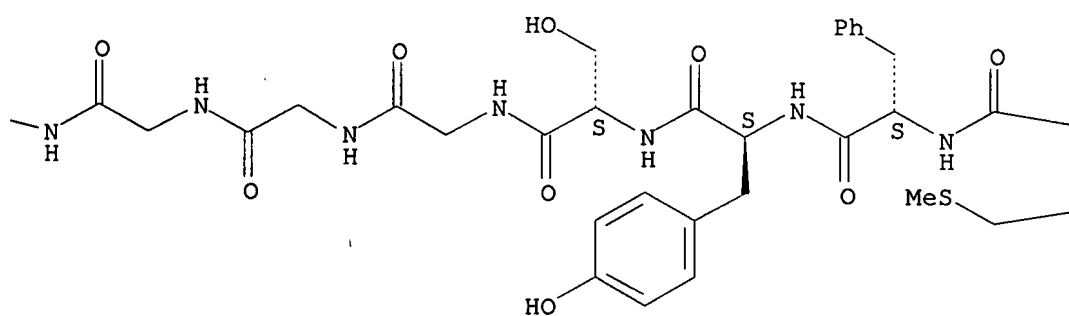
PAGE 1-A

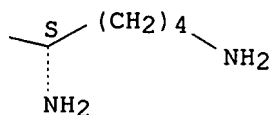
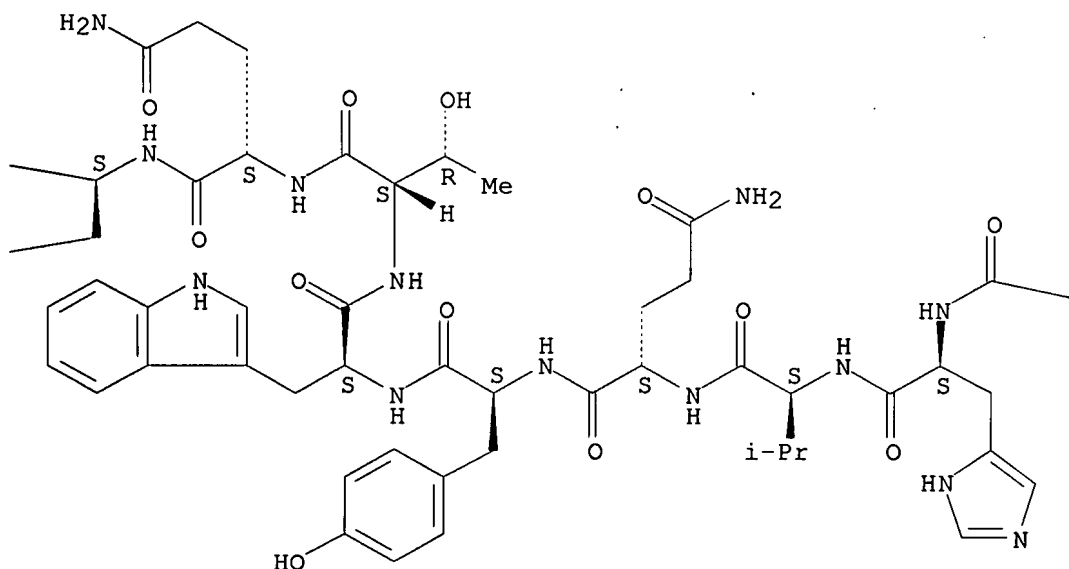


PAGE 1-B



PAGE 1-C





=> s fluorettes

L3 3 FLUORETTES

=> s l3 not l2

L4 1 L3 NOT L2

=> d l4 ibib abs hitstr tot

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:802926 CAPLUS

DOCUMENT NUMBER: 130:165114

TITLE: Evolution of peptides that modulate the spectral qualities of bound, small-molecule fluorophores

AUTHOR(S): Rozinov, Michael N.; Nolan, Garry P.

CORPORATE SOURCE: Department of Molecular Pharmacology, Stanford University Medical Center, Stanford, CA, 94305-5332,

SOURCE: USA  
 Chemistry & Biology (1998), 5(12), 713-728  
 CODEN: CBOLE2; ISSN: 1074-5521  
 PUBLISHER: Current Biology Publications  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

AB Fluorophore dyes are used extensively in biomedical research to sensitively assay cellular constituents and physiol. We have created, as proof of principle, fluorophore dye binding peptides that could have applications in fluorescent dye-based approaches in vitro and in vivo. A panel of Texas red, Rhodamine red, Oregon green 514 and fluorescein binding peptides, termed here "fluorettes", was selected via biopanning of a combinatorial library of 12-mer peptides fused to a minor coat pIII protein of the filamentous bacteriophage M13. The "best" fluorette sequences from each of the groups were subjected to further mutagenesis, followed by a second biopanning to select a new generation of improved fluorettes. Phage were selected that had higher avidity for each fluorophore except Rhodamine red. Of these, peptides were characterized that could specifically and with high affinity bind at least one dye, Texas red, in solution. In addition, the binding of certain peptides to Texas red shifted the peak excitation and/or the emission spectra of the bound dye. Peptides in the context of phage display could readily be selected that could bind to small-mol. fluorophores. The affinities of selected mutant fluorettes could be increased by mutation and further selection. Only a subset of the free peptides could bind free dyes in solution, suggesting that phage context contributed to the selection and ability of certain peptidic regions to independently bind the dyes. Future screens might lead to the creation of other dye-binding peptides with novel characteristics or Texas red derivs. with crosslinking substituents might be designed to increase the utility of the system.

REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s fluorophore binding peptide

7883 FLUOROPHORE  
 4771 FLUOROPHORES  
 10945 FLUOROPHORE  
 (FLUOROPHORE OR FLUOROPHORES)  
 971690 BINDING  
 2106 BINDINGS  
 972292 BINDING  
 (BINDING OR BINDINGS)  
 368584 PEPTIDE  
 269855 PEPTIDES  
 472037 PEPTIDE  
 (PEPTIDE OR PEPTIDES)

L5 0 FLUOROPHORE BINDING PEPTIDE  
 (FLUOROPHORE (W) BINDING (W) PEPTIDE)

=> log y

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